

IN THE CLAIMS:

Please add new claims 20, 21 as shown below.

1           1. (Previously amended) A laser oscillator, comprising:  
2           a semiconductor laser for generating a pumping laser light;  
3           a laser medium for receiving said pumping laser light and for generating an  
4           attained laser light, said laser medium having an optical axis; and  
5           a concave mirror for reflecting pumping laser light from said semiconductor laser  
6           to said laser medium;  
7           wherein said pumping laser light generated from said semiconductor laser is  
8           condensed to irradiate upon said laser medium by said concave mirror, and wherein the  
9           said pumping laser light which is reflected by said concave mirror has a core axis which  
10          forms a predetermined non-linear angle with respect to the optical axis of said laser  
11          medium.

1           2. (Previously amended) A light scattering particle detector for detecting particles  
2           contained in sample fluid which defines a flow path, said particle detector comprising a  
3           semiconductor laser and a concave mirror disposed between said flow path and said  
4           semiconductor laser,  
5           wherein laser light generated from said semiconductor laser is condensed to  
6           irradiate upon said flow path with said concave mirror and thereby a particle detecting  
7           region is defined.

1 3. (Previously amended) The light scattering particle detector of claim 2, further  
2 comprising a condenser lens disposed between said flow path and said concave mirror  
3 and having an optical axis, and wherein the core axis of said laser light which is reflected  
4 by said concave mirror has a predetermined non-linear angle with respect to the optical  
5 axis of said condenser lens.

6. (Previously amended) The light scattering particle detector of claim 2,  
wherein particles contained in said particle detecting region are detected by receiving  
scattered light generated by said laser light.

1 7. (Previously amended) A light scattering particle detector comprising:  
2 a semiconductor laser for generating pumping laser light;  
3 a laser medium for being pumped by said pumping laser light;  
4 a reflecting mirror on which laser light irradiated from said laser medium is  
5 reflected;  
6 a flow path defined by sample fluid and being provided between said laser  
7 medium and said reflecting mirror; and  
8 a particle detecting region defined by irradiating said laser light to the flow path,  
9 said light scattering particle detector being adapted for detecting particles  
10 contained in said particle detecting region by receiving scattered light generated by said  
11 laser light,  
12 wherein the optical axis of said laser medium and the optical axis of said  
13 reflecting mirror are allowed to coincide with each other and a setting angle adjusting

14 means is provided for adjusting setting angles of said laser medium and said reflecting  
15 mirror with respect to a setting block for each so as to make the optical axes intersect said  
16 flow path.

1 8. (Previously amended) A light scattering particle detector according to claim 7,  
2 wherein said setting angle adjusting means comprises:  
3 a laser medium setting member to which said laser medium is fixed, the setting  
4 angle of which laser medium setting member is adjustable with respect to said setting  
5 block for the laser medium;  
6 a reflecting mirror setting member to which said reflecting mirror is fixed, the  
7 setting angle of which reflecting mirror setting member is adjustable with respect to said  
8 setting block for the reflecting mirror; and  
9 elastic members which are interposed between said laser medium setting  
10 member and said setting block for the laser medium and between said reflecting mirror  
11 setting member and said setting block for the reflecting mirror.

1 9. (Previously amended) A light scattering particle detector according to claim 8,  
2 wherein said elastic members are O-rings comprised of rubber.

1 10. (Previously amended) A laser oscillator, comprising:  
2 a semiconductor laser for generating a pumping laser light;  
3 a laser medium for receiving said pumping laser light and for generating an  
4 attained laser light, said laser medium having an optical axis; and

5 a condensing lens for directing condensed pumping laser light from said  
6 semiconductor laser to said laser medium;

7 wherein at least one of a setting position adjusting means for said semiconductor  
8 laser and a setting position adjusting means for the condenser lens is provided for  
9 superposing the intensity distribution of said pumping laser light generated from said  
10 semiconductor laser on the intensity distribution of said laser light irradiated from said  
11 laser medium.

1 13. (Previously amended) A light scattering particle detector in which said laser light  
2 irradiated from said laser oscillator according to claim 10 is directed to a flow path  
3 defined by sample fluid, and thereby a particle detecting region is defined, particles  
4 contained in which particle detecting region are detected by receiving scattered light  
5 generated by irradiating said laser light onto said particles.

1 14. (Previously amended) A laser oscillator in which pumping laser light generated from a  
2 pumping light source is condensed to irradiate upon a solid-state laser with a condenser and laser  
3 light irradiated from said solid-state laser is allowed to reflect back to said solid-state laser from a  
4 reflector, wherein at least one of said condenser and said reflector has a surface having different  
5 radii of curvature in the parallel direction and the perpendicular direction with respect to the flow  
6 path.

1 15. (Previously amended) The laser oscillator of Claim 14, wherein said condenser is a

2 condenser lens, said reflector is a mirror, and both said condenser and said reflector have  
3 a surface having different radii of curvature in the parallel direction and the perpendicular  
4 direction with respect to the flow path.

1 17. (Previously amended) A light scattering particle detector in which said laser light  
2 irradiated from said laser oscillator according to claim 14 is directed to a flow path  
3 defined by sample fluid, and thereby a particle detecting region is defined, and wherein  
4 particles contained in said particle detecting region are detected by receiving and  
5 analyzing scattered light generated by irradiating said laser light on said particles.

1 18. (Reinstated – formerly claim 5) A laser oscillator in which pumping laser light  
2 generated from a semiconductor laser is condensed to irradiate upon a laser medium with  
3 a condenser lens, said laser medium is pumped, and thereby laser light is irradiated,  
4 wherein the optical axis of said semiconductor laser has a predetermined angle with  
5 respect to the optical axis of said laser medium.

1 19. (Reinstated – formerly claim 6) A light scattering type particle detector in which  
2 said laser light irradiated from said laser oscillator according to claim 18 is condensed to  
3 irradiate upon a flow path defined by sample fluid, and thereby a particle detecting region  
4 is defined, particles contained wherein being detected by receiving scattered light  
5 generated by said laser light.

1 20. (New) The light scattering particle detector of claim 2, wherein an optical axis of

2 said semiconductor laser and an optical axis of said concave mirror do not coincide.

1 21. (New) The laser oscillator of claim 2, wherein said predetermined angle is non-  
2 linear.